

REMARKS

Claims 8-14 are pending. By this Amendment, claim 8 is amended and new claims 12-14 are added. Support for the amendments can be found at least in Fig. 10 and paragraphs [0043] and [0044] of Applicants' as-filed specification.

The Office Action rejects claims 8-11 under 35 U.S.C. §103(a) over U.S. Patent No. 4,322,665 to Landgraf in view of U.S. Patent No. 6,046,568 to Pengov and further in view of U.S. Patent No. 6,858,964 to Masumoto et al. This rejection is respectfully traversed.

Applicants' independent claim 8 recites, a single phase motor including a stator having a stator iron core formed by laminating a plurality of electromagnetic steel sheets and provided with a plurality of slots, each of which is arranged between each of a plurality of stator teeth. Single phase two-pole distributed windings composed of a main winding and an auxiliary winding are contained in respective slots. A rotor is placed through a gap on an inner circumference of the stator. A plurality of notches having an approximately same width as the stator teeth are provided on an outer circumference of the stator iron core. A notch is not provided at an outer circumferential side of a slot in which the main winding is inserted among the plurality of slots.

Such features encompass Applicants' exemplary embodiment as illustrated in Fig. 10 wherein notches are not provided on the outer circumferential side of the slots to which the main winding is inserted. As discussed in paragraph 44 of Applicants' as-filed specification by increasing an area of the slots which contain the main winding 10 it is possible to obtain an efficient and reliable single phase motor.

This combination of features is not disclosed by the Landgraf, Pengov and Masumoto patents either alone or in combination.

The dependent claims are allowable for at least the reasons discussed above as well as for the individual features they recite. For example, new dependent claim 12 recites a single-phase motor wherein the plurality of slots includes large slots and small slots, the large slots being larger than the small slots and wherein the main winding is inserted in a large slot. New dependent claim 13 recites a single-phase motor, wherein the main winding is inserted into a respective slot after the auxiliary winding is inserted into a respective slot. New dependent claim 14 recites a single-phase motor, wherein an outer winding of the main winding of a concentric winding system is inserted in a large slot. This combination of features is not disclosed in any of the applied references.

Early and favorable action with respect to this application is respectfully requested.

Should the Examiner have any questions regarding this Amendment of the application in general, he is invited to contact the undersigned at the number provided below.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC



By:

Michael Britton
Registration No. 47260

Date: June 10, 2010

Customer No. 21839
703 836 6620